Performance Data Sheet

AVA5538WXG

General Information

Model	AVA5538WXG	**Refrigerant**	R-407C/R-22
Test Condition	ARI (R407C)	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12200	10100					
	Watts	1090	1160					
	Amps	1.56	1.65					
	Lb/h							
-10	Btu/h	12600	10700	8750				
	Watts	1240	1320	1350				
	Amps	1.80	1.88	1.98				
	Lb/h							
-5	Btu/h	13600	11800	9960	8060			
	Watts	1380	1490	1530	1520			
	Amps	2.02	2.11	2.20	2.29			
	Lb/h	27.6	34.6	43.6	52.6			
0	Btu/h	15000	13300	11600	9720	7830		
	Watts	1510	1650	1720	1730	1700		
	Amps	2.24	2.33	2.43	2.52	2.58		
	Lb/h	101	100	101	102	102		
5	Btu/h	16900	15300	13500	11700	9820		
	Watts	1640	1800	1890	1930	1920		
	Amps	2.44	2.55	2.65	2.75	2.81		
	Lb/h	168	160	155	149	142		
10	Btu/h	19200	17600	15900	14000	12100	10100	8070
	Watts	1750	1940	2060	2130	2140	2130	2080
	Amps	2.61	2.75	2.87	2.98	3.06	3.09	3.07
	Lb/h	230	216	205	194	182	166	144
15	Btu/h	22000	20400	18600	16700	14600	12500	10400
	Watts	1850	2070	2220	2310	2360	2370	2350
	Amps	2.77	2.93	3.08	3.21	3.30	3.35	3.34
	Lb/h	288	269	253	238	222	202	176
20	Btu/h	25200	23500	21600	19600	17400	15200	12900
	Watts	1940	2180	2360	2490	2560	2600	2610
	Amps	2.89	3.09	3.27	3.43	3.55	3.62	3.63
	Lb/h	342	319	300	282	262	240	212

25	Btu/h	28900	27000	25000	22800	20500	18100	15500
	Watts	2010	2280	2490	2650	2760	2820	2860
	Amps	2.97	3.22	3.44	3.64	3.79	3.89	3.92
	Lb/h	393	368	346	326	305	281	251
30	Btu/h	32900	30900	28700	26400	23800	21100	18300
	Watts	2050	2360	2600	2790	2930	3030	3110
	Amps	3.02	3.32	3.59	3.83	4.03	4.16	4.23
	Lb/h	442	416	393	372	350	326	296
35	Btu/h	37400	35200	32800	30200	27400	24400	21300
	Watts	2070	2420	2690	2920	3090	3230	3330
	Amps	3.03	3.39	3.72	4.01	4.25	4.43	4.53
	Lb/h	491	464	442	421	399	376	347
40	Btu/h	42200	39800	37100	34200	31100	27800	24400
	Watts	2070	2450	2760	3020	3230	3400	3540
	Amps	2.99	3.42	3.81	4.16	4.46	4.69	4.84
	Lb/h	539	514	492	473	453	431	405
45	Btu/h	47500	44700	41800	38500	35100	31500	27700
	Watts	2030	2450	2800	3100	3350	3550	3730
	Amps	2.90	3.40	3.86	4.28	4.64	4.93	5.14
	Lb/h	589	565	546	529	512	493	470
50	Btu/h	53100	50000	46700	43100	39300	35200	31000
	Watts	1970	2430	2820	3150	3440	3680	3900
	Amps	2.76	3.34	3.88	4.37	4.80	5.15	5.42
	Lb/h	640	620	604	591	578	563	544
55	Btu/h	59000	55600	51900	47900	43700	39200	34500
	Watts	1870	2370	2800	3180	3500	3790	4050
	Amps	2.55	3.22	3.85	4.42	4.93	5.36	5.70
	Lb/h	694	678	667	659	651	641	628

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.198378E+04	-2.958285E+03	2.967369E+00	4.515298E+02
C2	7.241699E+01	-1.517875E+01	-5.448261E-03	2.785484E+01
C3	1.283024E+01	1.046307E+02	-3.989027E-02	-1.074787E+01
C4	1.607608E+01	-4.230805E-01	-1.538005E-03	-3.088406E-01
C5	4.763482E+00	5.347835E-01	9.093753E-04	-1.904438E-01
C6	-1.578495E+00	-7.301936E-01	5.432569E-04	1.082809E-01
C7	-1.319783E-02	-3.313255E-03	-5.664283E-06	1.208844E-03
C8	-8.508679E-02	3.089133E-03	1.498044E-05	2.283136E-03
C9	-1.912777E-02	-2.257504E-04	-4.035187E-06	2.252775E-04
C10	4.074805E-03	1.512380E-03	-1.981165E-06	-3.584238E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AVA5538WXG

General Information

Model	AVA5538WXG	**Refrigerant**	R-407C/R-22
Test Condition	ASHRAE (R22)	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	10600	9190					
	Watts	1460	1480					
	Amps	2.91	2.98					
	Lb/h	137	123					
-10	Btu/h	12700	11200	9680				
	Watts	1580	1620	1630				
	Amps	3.04	3.12	3.15				
	Lb/h	164	149	135				
-5	Btu/h	15100	13500	11800	10200			
	Watts	1700	1760	1790	1800			
	Amps	3.17	3.25	3.30	3.32			
	Lb/h	193	178	163	147			
0	Btu/h	17800	16000	14200	12400	10700		
	Watts	1810	1890	1950	1970	1970		
	Amps	3.29	3.39	3.45	3.48	3.49		
	Lb/h	226	211	194	177	160		
5	Btu/h	20800	18800	16800	14800	12900		
	Watts	1900	2010	2090	2140	2160		
	Amps	3.40	3.52	3.60	3.64	3.66		
	Lb/h	262	246	229	211	192		
10	Btu/h	24000	21900	19800	17600	15400	13400	11600
	Watts	1990	2120	2230	2300	2350	2370	2360
	Amps	3.49	3.63	3.73	3.80	3.84	3.86	3.85
	Lb/h	301	285	267	247	228	208	189
15	Btu/h	27600	25300	23000	20600	18200	16000	13900
	Watts	2060	2220	2350	2450	2520	2570	2590
	Amps	3.58	3.74	3.86	3.96	4.02	4.06	4.08
	Lb/h	343	327	308	288	267	245	224
20	Btu/h	31500	29100	26500	23900	21300	18800	16400
	Watts	2110	2300	2460	2590	2690	2760	2800
	Amps	3.64	3.83	3.98	4.10	4.19	4.26	4.30
	Lb/h	389	372	353	332	309	287	264

25	Btu/h	35700	33100	30300	27500	24700	21900	19300
	Watts	2160	2370	2560	2710	2840	2940	3010
	Amps	3.68	3.91	4.09	4.24	4.36	4.45	4.53
	Lb/h	438	421	401	379	356	331	307
30	Btu/h	40300	37500	34500	31500	28400	25300	22400
	Watts	2180	2420	2640	2820	2980	3110	3210
	Amps	3.71	3.96	4.18	4.36	4.52	4.64	4.75
	Lb/h	491	474	454	431	406	380	354
35	Btu/h	45300	42200	39000	35700	32400	29100	25800
	Watts	2180	2460	2710	2920	3110	3260	3390
	Amps	3.70	4.00	4.25	4.47	4.66	4.82	4.97
	Lb/h	548	531	510	486	460	433	405
40	Btu/h	50600	47300	43900	40300	36700	33100	29600
	Watts	2170	2480	2750	3000	3220	3400	3560
	Amps	3.67	4.00	4.30	4.56	4.79	4.99	5.18
	Lb/h	609	591	570	545	519	490	460
45	Btu/h	56300	52800	49100	45300	41400	37500	33600
	Watts	2140	2480	2790	3060	3310	3530	3720
	Amps	3.61	3.99	4.33	4.63	4.90	5.15	5.37
	Lb/h	673	655	634	609	581	551	520
50	Btu/h	62300	58600	54700	50600	46400	42200	38000
	Watts	2080	2450	2800	3110	3390	3640	3860
	Amps	3.52	3.94	4.33	4.68	5.00	5.29	5.56
	Lb/h	742	724	702	676	647	616	583
55	Btu/h	68800	64900	60700	56300	51800	47300	42800
	Watts	2000	2410	2790	3130	3450	3730	3990
	Amps	3.39	3.86	4.30	4.70	5.07	5.41	5.73
	Lb/h	814	796	774	748	718	686	651

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.333275E+04	-2.659961E+01	6.792088E-01	2.166532E+02
C2	6.585970E+02	-1.973403E+01	-4.970412E-03	5.440712E+00
C3	1.047996E+02	3.687509E+01	5.765273E-02	2.370555E+00
C4	7.307951E+00	-3.825170E-01	-7.269355E-04	5.581754E-02
C5	2.915177E-01	5.217303E-01	3.725822E-04	4.174836E-02
C6	-3.012649E+00	-1.857795E-01	-3.679974E-04	-3.723911E-02
C7	1.542535E-02	-1.602462E-03	-3.335961E-06	1.248574E-04
C8	-1.919246E-02	2.065670E-03	6.571676E-06	9.292194E-05
C9	-1.852665E-02	-2.640987E-04	-2.949743E-07	-3.029019E-04
C10	1.049273E-02	1.438787E-04	6.870841E-07	1.128324E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature